POWER ADAPTER INTERFACE CIRCUITRY FOR PROTECTING A BATTERY OPERATED SYSTEM

ABSTRACT OF THE DISCLOSURE

An integrated circuit (IC) has logic and timing circuits that are coupled to discrete circuitry to provide protection and indications whenever an AC adapter that is faulty or has improper voltage levels or polarity are plugged into a system. In particular, the IC device provides over-voltage, under-voltage, and reversed-polarity protections to an electronic system to keep the electronic system from being damaged by an alternating current (AC) adapter having an improper voltage range or voltage polarity. It also provides a protection that prevents an adapter from powering a host system that has a short-circuit fault.

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